

Recovery Plan Action Status

Plan Name: Recovery Plan for Vernal Pool Ecosystems of California and Southern Oregon

Plan Status: Final

Plan Date: 15-Dec-05

Lead Agency: USFWS

Lead Office: Sacramento Fish And Wildlife Office

(916)

414-6600)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Hoover's spurge (Chamaesyce hooveri), Colusa grass (Neostapfia colusana), Fleshy owl's-clover (Castilleja campestris ssp. succulenta), Contra Costa goldfields (Lasthenia conjugens), Solano grass (Tuctoria mucronata), Few-flowered navarretia (Navarretia leucocephala ssp. pauciflora (=N. pauciflora)), Greene's tuctoria (Tuctoria greenei)	2	2.2.2	Implement standardized monitoring to document ecosystem and species responses to interim habitat management activities.	Not Started			To be decided	Research: Population Surveys	Internal Field Assistance	
Hoover's spurge (Chamaesyce hooveri), Colusa grass (Neostapfia colusana), Hairy Orcutt grass (Orcuttia pilosa), Fleshy owl's-clover (Castilleja campestris ssp. succulenta), Slender Orcutt grass (Orcuttia tenuis), Contra Costa goldfields (Lasthenia conjugens), Butte County meadowfoam (Limnanthes floccosa ssp. californica), San Joaquin Orcutt grass (Orcuttia inaequalis), Greene's tuctoria (Tuctoria greenei)	2	2.5.1.3	Conduct Priority 2 seed collection and banking as identified in Table IV-3.	Not Started			Botanical Gardens	Management: Land Use	Internal Field Assistance	Assumes \$15,000 for collection in each region

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Colusa grass (Neostapfia colusana), Contra Costa goldfields (Lasthenia conjugens), Butte County meadowfoam (Limnanthes floccosa ssp. californica), Solano grass (Tuctoria mucronata), Few-flowered navarretia (Navarretia leucocephala ssp. pauciflora (=N. pauciflora)), Greene's tuctoria (Tuctoria greenei)	1	2.5.4.1	Conduct Priority 1 reintroductions and introductions of plants as indicated in Table IV-5 and Table IV-6, respectively.	Ongoing Current			U.S. Fish and Wildlife Service	Management: Propagation	Contract	Assumes \$25,000 x at least 2 sites. Initially successful reintroductions of Neostapfia colusana and Tuctoria greenei have taken place at Grasslands Park and Sacramento NWR Complex respectively.

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Delta green ground beetle (<i>Elaphrus viridis</i>), Vernal pool tadpole shrimp (<i>Lepidurus packardii</i>), Hoover's spurge (<i>Chamaesyce hooveri</i>), Colusa grass (<i>Neostapfia colusana</i>), Hairy Orcutt grass (<i>Orcuttia pilosa</i>), Longhorn fairy shrimp (<i>Branchinecta longiantenna</i>), Fleshy owl's-clover (<i>Castilleja campestris</i> ssp. <i>succulenta</i>), Slender Orcutt grass (<i>Orcuttia tenuis</i>), Sacramento Orcutt grass (<i>Orcuttia viscida</i>), Conservancy fairy shrimp (<i>Branchinecta conservatio</i>), Contra Costa goldfields (<i>Lasthenia conjugens</i>), Loch Lomond coyote thistle (<i>Eryngium constancei</i>), Butte County meadowfoam (<i>Limnanthes floccosa</i> ssp. <i>californica</i>), Lake County stonecrop (<i>Parvisedum leiocarpum</i>), Solano grass (<i>Tuctoria mucronata</i>), Few-flowered navarretia (<i>Navarretia leucocephala</i> ssp. <i>pauciflora</i> (=N. <i>pauciflora</i>)), San Joaquin Orcutt grass (<i>Orcuttia inaequalis</i>), Vernal pool fairy shrimp (<i>Branchinecta lynchi</i>), Many-flowered navarretia	1	3.2.2	Conduct standardized status surveys within each vernal pool region, starting with core areas.	Partially Complete	FY 2008	FY 2012	To be decided	Other	Contract, Species Expert	See 1.3.1-1.3.16 above. Species expert has been funded through CVPHRP to conduct plant surveys in Sacramento and San Joaquin Valleys. Final report will be submitted to FWS in 2012.

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